



Infectious Disease Epidemiology Report



Invasive Group A Streptococcal disease, 2005 -- provisional

Background

The Infectious Disease Epidemiology program of the Maine Center for Disease Control and Prevention monitors the incidence of invasive Group A Streptococcal (GAS) disease through mandatory reporting by health care providers, clinical laboratories and other public health partners. This report summarizes surveillance data on cases of invasive GAS from 2005.

Methods

Invasive GAS is defined as isolation of Group A *Streptococcus* (*Streptococcus pyogenes*) by culture from a normally sterile site (e.g., blood or cerebrospinal fluid [CSF] or, less commonly, joint, pleural, or pericardial fluid). Standardized case report forms that include information on demographic characteristics, clinical syndromes, and outcomes of illness were completed for each reported case in 2005. All rates of invasive GAS were calculated using U.S. Bureau of Census Maine population counts for 2000.

Results

A total of 14 cases of invasive GAS were reported in 2005. The rate of GAS in Maine was 1.1 cases per 100,000 population in 2005.

Seven cases (50%) were found among males. All 13 cases that had racial demographics available were identified as White. All 14 cases (100%) were hospitalized as a result of invasive GAS. No deaths were associated with invasive GAS in 2005.

Six case-patients reported no current Varicella infection; Varicella infection status was unknown for eight case-patients. Persons with active Varicella infection are at risk of invasive GAS. One household contact >65 years was recommended to receive prophylaxis to prevent GAS.

Invasive GAS by age – Maine, 2005

Age Years	Cases	
	No.	Rate*
<1	0	0
1	0	0
2-4	0	0
5-17	1	0.4
18-34	0	0
35-49	3	1.0
50-64	5	2.3
>65	5	2.7
Total	14	1.1

* Cases per 100,000 population

Invasive GAS by syndrome* – Maine, 2005

Syndrome	No.	(%)
Aseptic arthritis	1	4.8
Cellulitis	4	19.0
Necrotizing fasciitis	1	4.8
Pneumonia	1	4.8
Primary bacteremia	11	52.4
Sepsis	1	4.8
Wound infection	2	9.5

* Some cases had more than one syndrome

Invasive GAS by county – Maine, 2005

